

Advanced Algebra  
Fractional Coefficients

Name

Hour

Key

Solve.

1.  $\frac{x}{2} + \frac{2x}{3} = 5$   
 $x = \frac{30}{7}$   
 or  
 $\sim 4.29$

2.  $\frac{9x}{5} - \frac{3x}{2} = 6$   
 $x = 20$

3.  $\frac{1}{3}(a+5) = \frac{7}{2}$   
 $a = 5.5$

4.  $\frac{2n-3}{2} = \frac{3}{4}$   
 $n = 2.25$

5.  $\frac{x+3}{2} - 2 = \frac{5x-2}{5}$   
 $x = -\frac{1}{5}$

6.  $.3f - .5 = .4f + .11$   
 $f = \frac{6}{26}$   
 or  
 $2.35$

7.  $.5(c+2.8) - c = .6c + .3$   
 $c = 1$

8.  $.6(3m+1) = .6$   
 $m = -\frac{1}{3}$

9.  $\frac{3x-1}{4} + \frac{x}{2} = \frac{3}{8}$   
 $x = \frac{1}{2}$

10.  $\frac{1}{5}(2x-1) = \frac{1}{3}(x+4)$   
 $x = 23$

11.  $\frac{3k-8}{14} + \frac{5}{7} = \frac{k+1}{2}$   
 $k = 1.25$

12.  $\frac{2(t+1)}{3} - \frac{5t}{4} = \frac{11}{6}$   
 $t = -2$

$$x=5 \quad 13. \quad \frac{4x}{3} - \frac{(2x+3)}{6} = \frac{9}{2}$$

$$m=-4 \quad 14. \quad \frac{1}{10}(m+8) - \frac{1}{15}(m-5) = 1$$

$$x=23/14 \quad 15. \quad \frac{2x-5}{4} = 4x-7$$

$$x=1 \quad 16. \quad \frac{5x}{6} - \frac{3-x}{8} = \frac{4x+3}{12}$$

$$x=30 \quad 17. \quad \frac{x}{2} + \frac{x}{5} + \frac{x}{3} = 31$$

$$x=29/40 \quad 18. \quad 0.5(2x + \frac{3}{4}) - \frac{1}{3}(0.1 + x) = 1$$

$$19. \quad 5(2x-2) - 2(2x+4) = 3(2x-6)$$

$$10x - 10 - 4x - 8 = 6x - 18$$

$$6x - 18 = 6x - 18$$

TR

$$20. \quad 10 - (-9 - 3k) = 4 - (2k + 3)$$

$$10 - (-9 - 3k) = 4 - (2k + 3)$$

$$10 + 9 + 3k = 4 - 2k - 3$$

$$1 + 3k = 1 - 2k$$

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